

### ABSTRACT OF THE DISCLOSURE

An apparatus for transmitting, receiving and manipulating information on a computer system, the apparatus including a plurality of containers, each container being a logically defined data enclosure and comprising an information element, a plurality of registers, and a gateway. The plurality of registers, form part of the container, and include a first register for storing a unique container identification value; a second register having a representation designating time and governing interactions of the container with other containers, systems or processes according to utility of information in the information element relative to an external-to-the-apparatus event time; an active time register for identifying times at which the container will act upon other containers, processes, systems or gateways; a passive time register for identifying times at which the container can be acted upon by other containers, processes, systems or gateways; and a neutral time register for identifying times at which the container may interact with other containers, processes, systems or gateways. Additional registers designate space for container interactions.